

Amendments to the Drawings:

The attached sheets of drawings are replacements of Figs. 3 and 4.

REMARKS/ARGUMENTS

Claim Amendments

The Applicant has amended claim 17. Applicant respectfully submits no new matter has been added. Accordingly, claims 1-23 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Examiner Objections – Drawings

The Drawings were objected to because Figure 3 is not of sufficient quality to permit examination. In response, the Applicant is submitting “formal” replacement sheets for Figures 3 and 4. The Examiner’s approval of these drawings is respectfully requested.

Examiner Objections – Specification

The abstract of the disclosure is objected to due to improper language. The Applicant thanks the Examiner for his careful review of the specification. In response, the Applicant has modified the abstract as suggested by the Examiner. The Examiner’s consideration of the amendments to the abstract is respectfully requested.

The specification is objected to due to improper formatting. In response, the Applicant has modified the specification as suggested by the Examiner. The Examiner’s consideration of the amendments to the specification is respectfully requested.

Examiner Objections - Claims

Claims 10, 13, and 15-19 were objected to due to improper form. In response, the Applicant respectfully disagrees. A preliminary amendment was submitted with the filing of this application, dated April 28, 2005 which amended the claims to remove all the multi-dependency of the claims. The reconsideration of the claims is respectfully requested.

Claim Rejections – 35 U.S.C. § 102(b)

Claims 1, 4, 9, 11, 20, 21, 22 and 23 stand rejected under 35 U.S.C. 102(b) as being anticipated by Zhu et al (US 5,768,527, hereinafter, Zhu). The Applicant respectfully traverses the rejection.

It is important to remember that anticipation requires that the disclosure of a single piece of prior art reveals every element, or limitation, of a claimed invention. Furthermore, the limitation that must be met by an anticipatory reference are those set forth in each statement of function in a claims limitation, and such a limitation cannot be met by an element in a reference that performs a different function, even though it may be part of a device embodying the same general overall concept. Zhu fails to anticipate each and every limitation of claim 1. Therefore, claim 1 is not anticipated.

Claim 1 recites:

1. A method for adapting multi-user multimedia data in a communication system with a server providing the multi-user multimedia data to clients, comprising the steps of:

- providing information on distribution characteristics between the server and the clients;
- sending a data stream containing the multi-user multimedia data from the server to the clients;
- determining the distribution characteristics associated with the clients;
- generating an aggregated feedback report on the clients' reception conditions of the data stream considering the distribution characteristics, wherein said feedback report includes information about aggregation fashion;
- sending the aggregated feedback report to the server; and
- adapting the transmission of the data stream from the server to the clients according to the aggregated feedback report. (emphasis added)

Zhu discloses a mechanism for retransmitting streaming data when packets losses occur on a slow link between a server and a single client. Fig. 1 of Zhu clearly disclose a single user communicating with a server. If a packet loss occurs, a feedback message is generated (col. 4 line 64 to col.5 line 20) when a QoS manager decides to retransmit the lost packet. However, Zhu does not disclose a multi-user communication to a number of users. Furthermore, Zhu does not solve the problem as it is stated in the present invention. In particular, Zhu does not address or solve the problem of a

multicast transmission to a plurality of users generating a number of feedback information reports, which overloads network resources. The present invention proposes to generate an aggregated feedback message which applies to a number of clients and, in response to the aggregated feedback message, the multicast transmission from the server to the users is adapted.

The Examiner cites col. 7, lines 50-55 of Zhu as disclosing sending an aggregated feedback message. The Applicant respectfully disagrees with this characterization. Zhu merely discloses that a number of copies of a retransmission request might be sent. Thus, Zhu discloses replication of one request from a single use and not about an aggregation of a number of requests received from a plurality of clients. Therefore, Zhu does not disclose generating an aggregated feedback report from a plurality of clients.

Thus, Zhu does not disclose all the elements recited in claim 1. Furthermore, independent claim 20 contains limitations analogous to claim 1 and also is not anticipated by Zhu. Claims 4, 9 and 11 depend from claim 1 and recite further limitations in combination with the novel elements of claim 1. Claims 21, 22, and 23 depend from claim 20 and recite further limitations in combination with the novel elements of claim 20. Therefore, the allowance of claims 1, 4, 9, 11, 20, 21, 22 and 23 is respectfully requested.

Claim Rejections – 35 U.S.C. § 103 (a)

Claims 2, 3, 5-8, 12 and 14 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Zhu (US 5,768,527) in view of Naghian, et al. (US 2004/0102195 A1, hereinafter Naghian). The Applicant respectfully traverses the rejection.

As discussed above, Zhu does not disclose generating an aggregated feedback report from a plurality of clients. The addition of Naghian does not make up the missing elements. Therefore, the combination of Zhu and Naghian does not teach or suggest the elements as recited in independent claim 1. Claims 2, 3, 5-8, 12, and 14 depend from claim 1 and recite further limitations in combination with the novel elements of

claim 1. Therefore, the allowance of claims 2, 3, 5-8, 12 and 14 is respectfully requested.

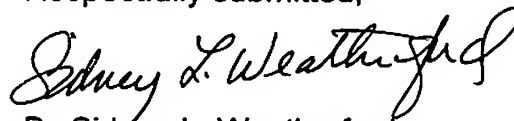
Claims 10, 13, and 15-19 were objected to by the Examiner. However, the Examiner did not explain the objection in the Office Action. Claims 10, 13, and 15-19 depend from claim 1 and recite further limitations in combination with the novel elements of claim 1. In light of the arguments above, the allowance of claims 10, 13, and 15-19 is respectfully requested.

CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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